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TITLE: MULTI-TASK PROCESSING SYSTEM
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INVENTOR-INFORMATION:
NAME
TANAKA, OSAMU

ASSIGNEE-INFORMATION:
NAME COUNTRY
MITSUBISHI ELECTRIC CORP N/A


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ABSTRACT:

PURPOSE: To increase the task switching speed by preparing plural pairs of various register groups which are needed for execution of tasks of a CPU and selecting and using an optional group via a group pointer register which secures the correspondence to the tasks to be executed.

CONSTITUTION: At switch of tasks to be executed, an operating system 9 designates a group pointer to select and use various register groups 12 corresponding to the tasks to be executed and sets the group pointer to a group pointer register 11. A CPU 10 selects the groups 12 based on the pointer set to the register 11 and executes the tasks in accordance with the contents of the groups 12. As a result, the task switching speed is increased.



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